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1/17

Fig.1

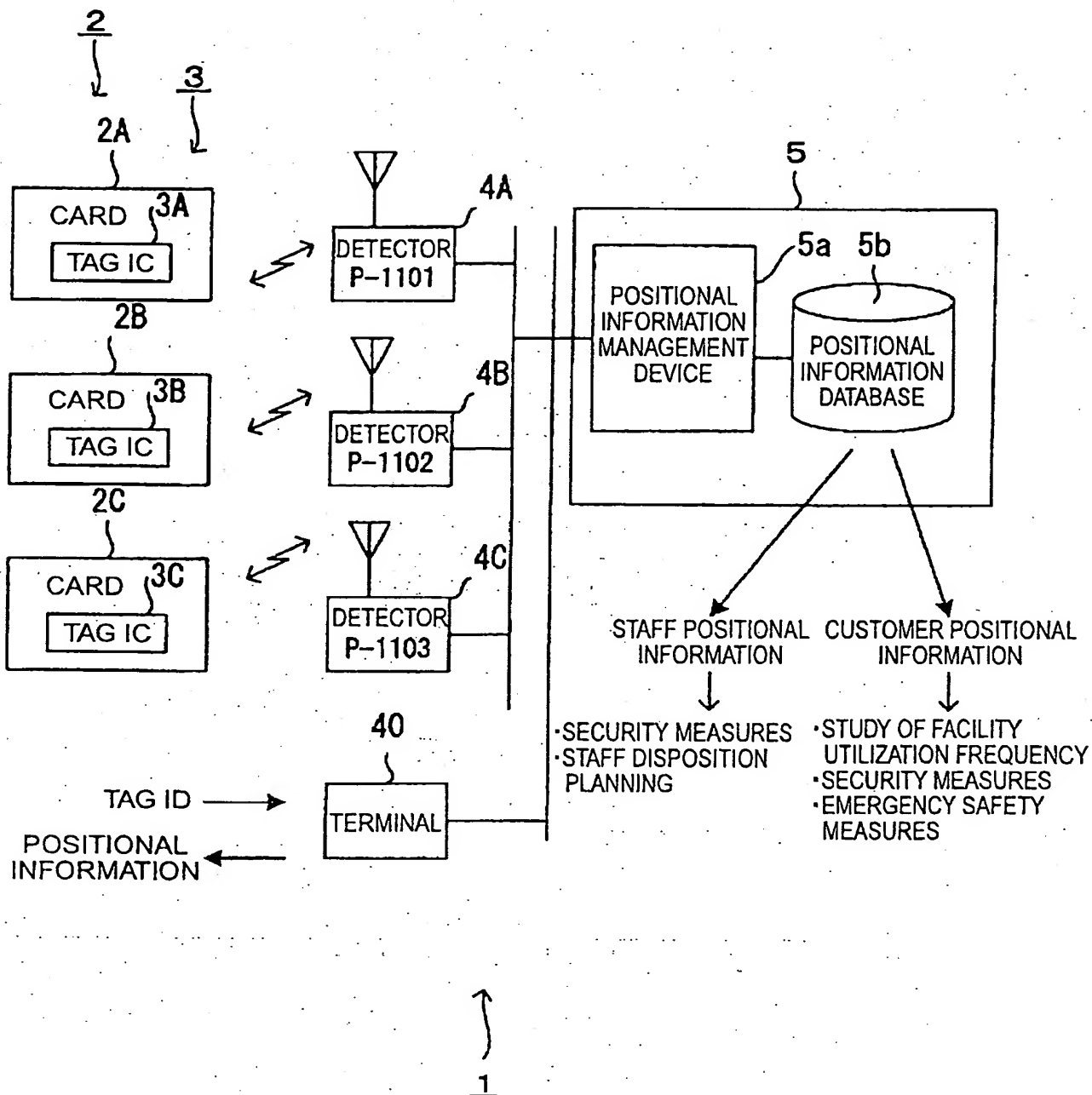
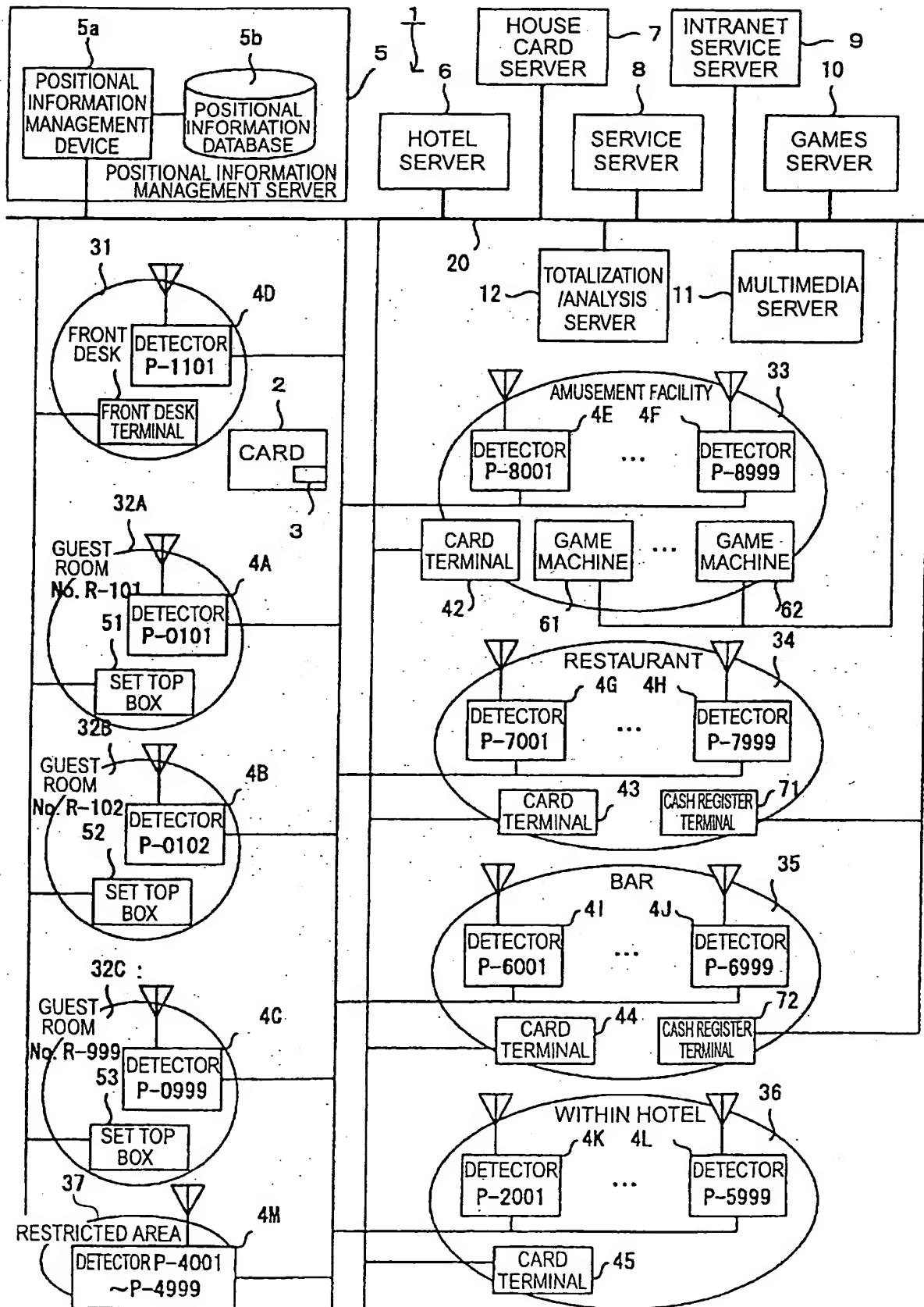


Fig. 2

2/17



4/17

Fig.4A

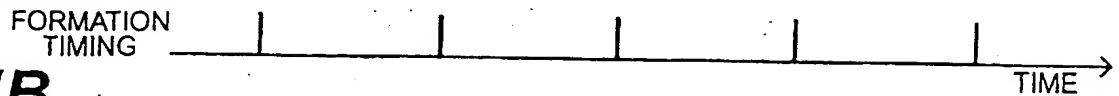


Fig.4B

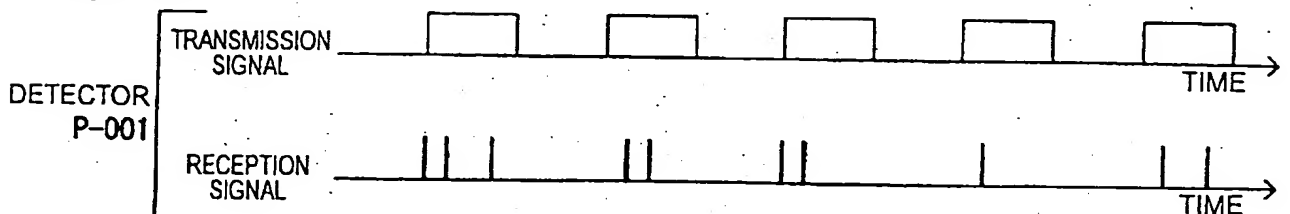


Fig.4C

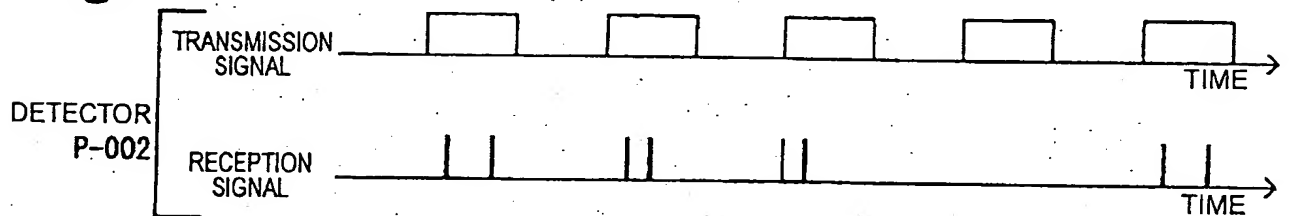


Fig.4D

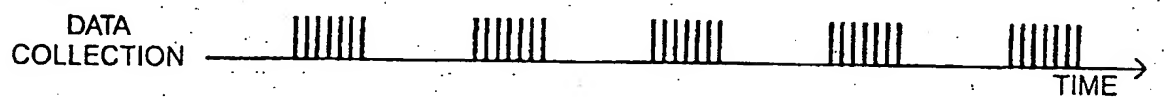


Fig.4E

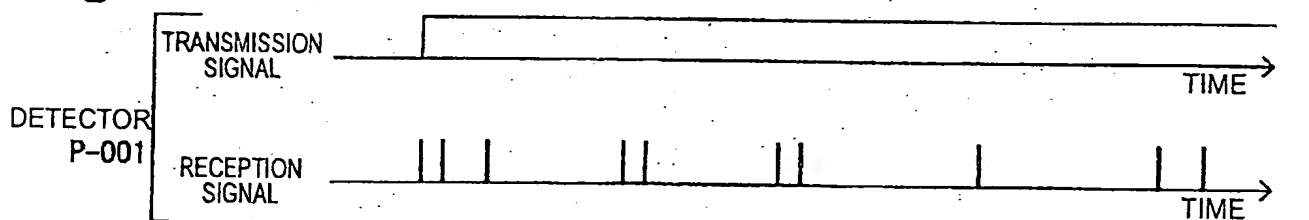
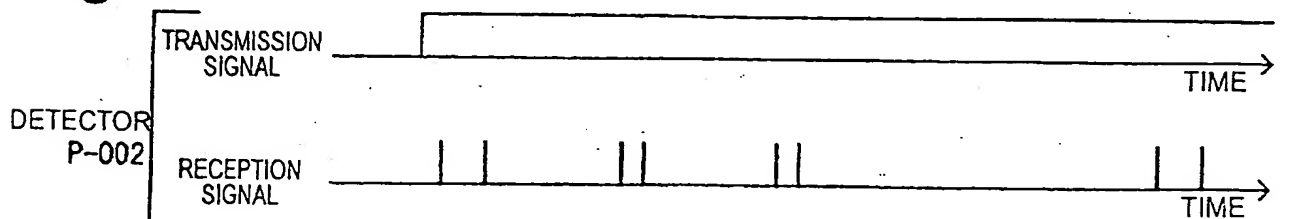
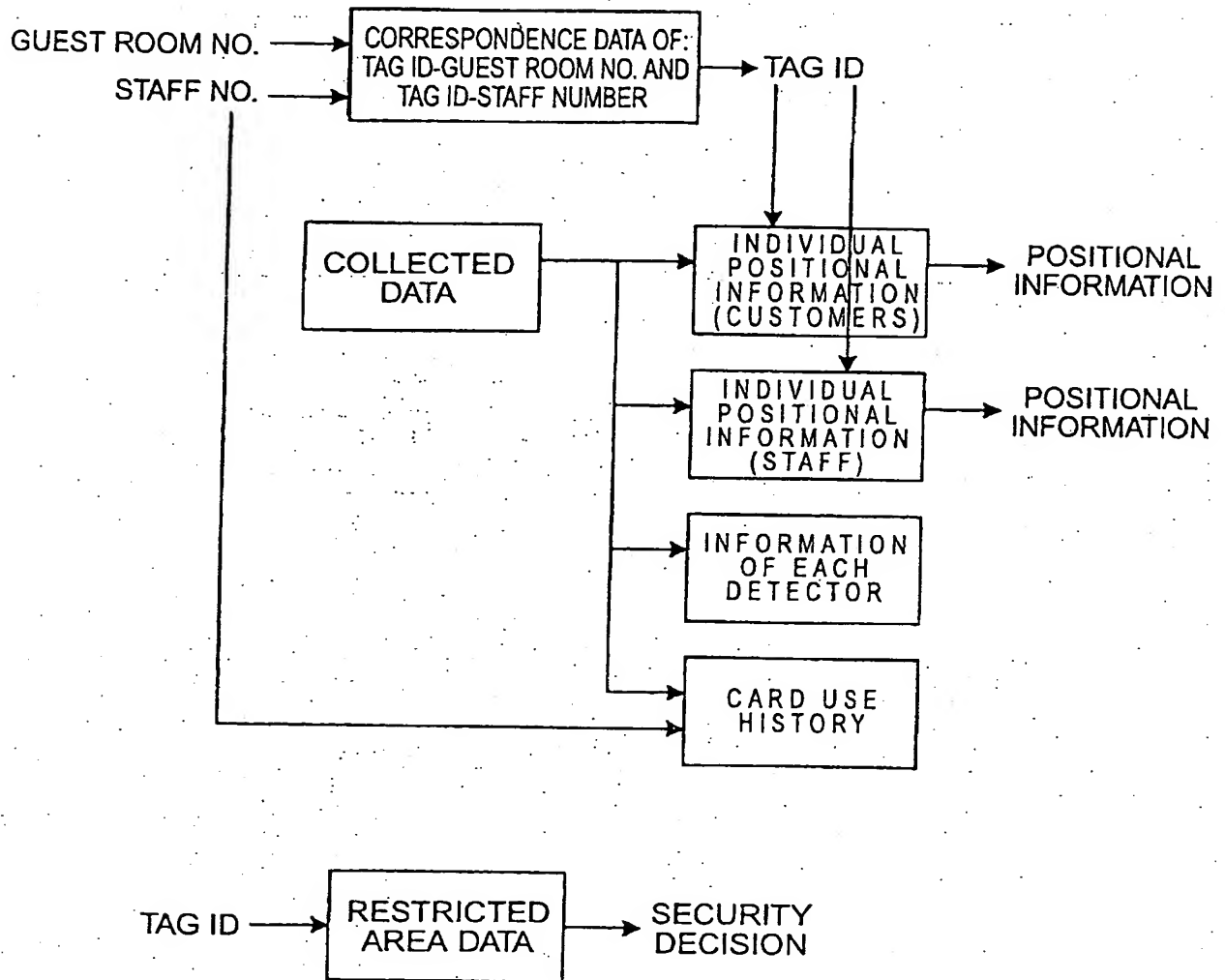


Fig.4F



5/17

Fig.5



FP03-0287-00

6/17

Fig.6

POSITIONAL INFORMATION (DATA COLLECTION)

DATE	TIME	TAG ID	LOCATION
* * MONTH / * * DAY	:	:	:
	10:00	C-9012	P-1002
	10:00	C-9023	P-1003
	10:00	C-1001	P-2002
	10:00	C-1002	P-2002
	10:00	C-3214	P-3098
	10:01	C-2003	P-1002
	10:01	C-2221	P-1002
	10:01	C-5236	P-1002
	10:01	C-9012	P-1002
	10:01	C-9041	P-4023
	:	:	:
	19:35	C-9036	P-1002
	19:35	C-9044	P-1002
	19:35	C-1001	P-3012
	19:35	C-1002	P-3012
	19:35	C-6523	P-1003
	19:36	C-2003	P-5012
	19:36	C-6002	P-1002
	19:36	C-7003	P-1002
	:	:	:

7/17

Fig.7ACORRESPONDENCE RELATIONSHIP OF:
TAG ID-GUEST ROOM NO.-NAME

GUEST ROOM NO.	TAG ID	NAME OF USER
R-101	C-1001	OO **
	C-1002	OO *Δ
	C-1003	OO □Δ
R-102	—	—
R-103	C-1234	** O
R-104	C-2003	Δ **
	C-3571	Ox ΔΔ
R-105	C-7777	OO OO
:	:	:

Fig.7BCORRESPONDENCE RELATIONSHIP OF:
TAG ID-STAFF

STAFF NO.	TAG ID
S-1001	C-9001
S-1002	C-9002
S-1003	C-9003
:	:

8/17

Fig.8

POSITIONAL (MOVEMENT) INFORMATION (CUSTOMERS:BASED ON TAG ID)

TAG ID	DATE	TIME	LOCATION
C-1001	** MONTH / ** DAY	10:00	P-2002
		:	:
		19:35	P-3012
		:	:
C-1002	** MONTH / ** DAY	10:00	P-2002
		:	:
		19:35	P-3012
		:	:
		:	:
C-2003	** MONTH / ** DAY	10:01	P-1002
		:	:
		19:36	P-5012
		:	:

9/17

Fig.9

POSITIONAL (MOVEMENT) INFORMATION (STAFF:BASED ON TAG ID)

TAG ID	DATE	TIME	LOCATION	PERMISSION
C-9001	** MONTH / ** DAY	:	:	0
		10:00	P-2022	0
		10:01	P-2022	0
		10:02	P-2023	0
		:	:	0
		19:35	P-2056	0
		19:36	P-2022	0
		19:37	P-2022	0
C-9002	** MONTH / ** DAY	:	:	:
		10:00	P-3002	0
		10:01	P-3003	0
		10:02	P-3005	0
		:	:	:
		19:35	P-3002	0
		19:36	P-3002	0
		19:37	P-3002	0
		:	:	:
		20:33	P-4001	1
:	:	:	:	:

10/17

Fig.10

POSITIONAL (MOVEMENT) INFORMATION (BASED ON LOCATION)

LOCATION	DATE	TIME-POINT	TAG ID
P-1001	** MONTH /** DAY	:	:
		10:00	C-9003
		10:00	C-9014
		10:00	C-9005
		10:01	C-9003
		10:01	C-9005
		10:02	C-9003
		10:02	C-9005
		:	:
P-1002	** MONTH /** DAY	:	:
		10:00	C-9102
		10:00	C-9203
		10:00	C-9036
		10:01	C-9102
		10:01	C-9111
		10:02	C-9111
		10:02	C-9036
		:	:

11/17

Fig.11

CARD USE HISTORY

TAG ID	GUEST ROOM NO.	USE HISTORY
C-1001	R-101	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-303	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-777	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-123	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-222	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
C-1002	R-888	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-456	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-159	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-258	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
	R-369	**YEAR** MONTH** DAY** HOUR:** MINUTE - **YEAR** DAY** HOUR:** MINUTE
:	:	:

Fig.12

CORRESPONDENCE DATA OF: TAG ID-AREA

TAG ID	AREA OF NORMAL EMPLOYMENT	RESTRICTED AREA
C-9001	P2001	P4001
	~ P2999	~ P4010
C-9002	P3001	P4011
	~ P3999	~ P4020
C-9003	P2001 ~ P3999	—
:	:	:

12/17

Fig.13

SEARCH FOR POSITIONAL INFORMATION

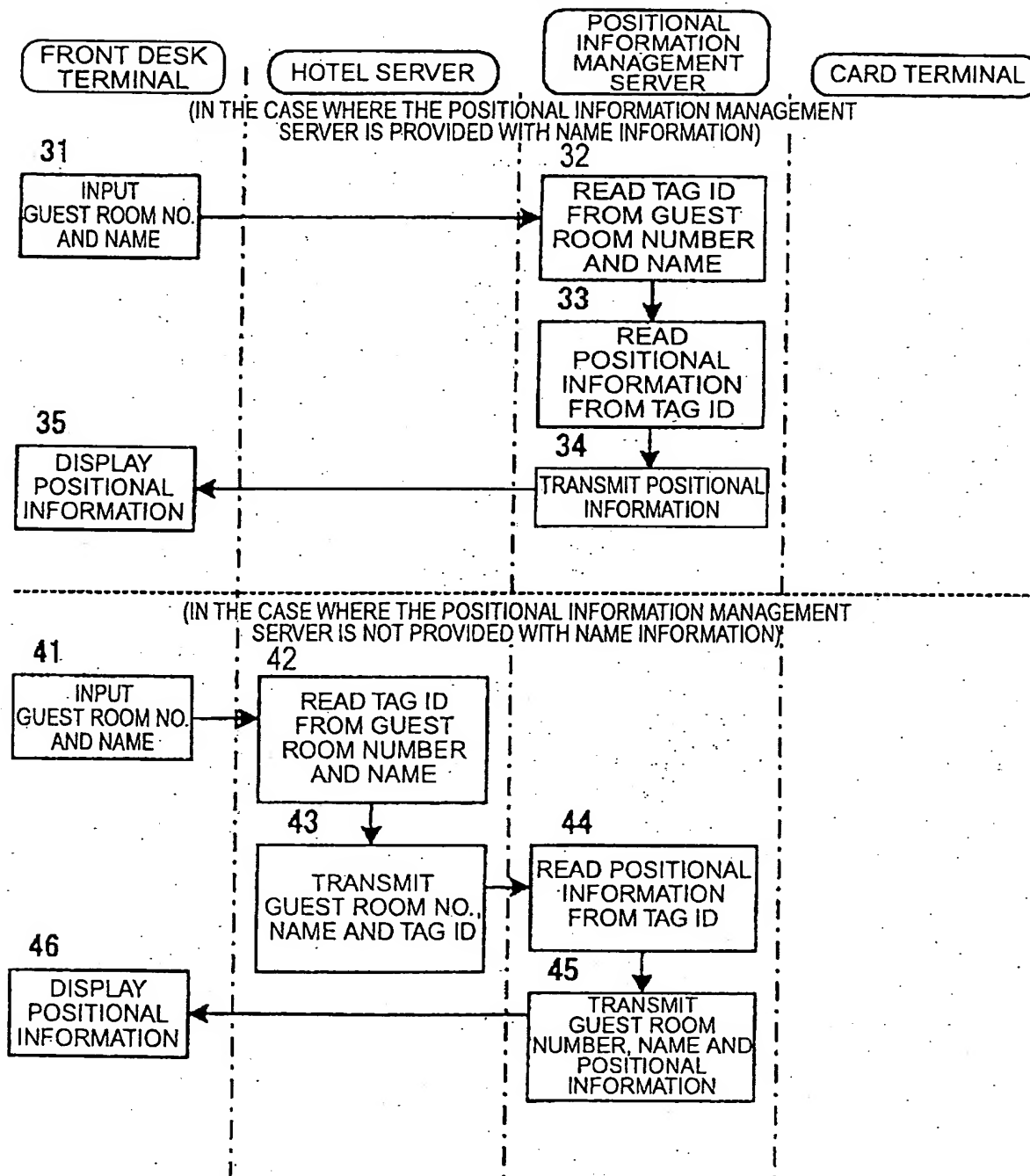


Fig. 14

HOTEL SERVER

DATE	GUEST ROOM NO.	TAG ID	USER INFORMATION				
			NAME	RESIDENCE	TELEPHONE NUMBER	...	INFORMATION PROVIDER AUTHENTICATED
** MONTH / ** DAY	R-101	C-1001	** *	** -****	** -****	...	○
		C-1002	** *	** -****	** -****	...	×
	R-102	—	—	—	—	—	—
	R-103	C-3256	** *	** -****	** -****	...	—
		C-3141	** *	** -****	** -****	...	○
	R-104	C-2147	** *	** -****	** -****	...	○
		—	—	—	—	—	—
	R-105	—	—	—	—	—	—
		—	—	—	—	—	—
		—	—	—	—	—	—

14/17

SEARCH FOR POSITIONAL INFORMATION

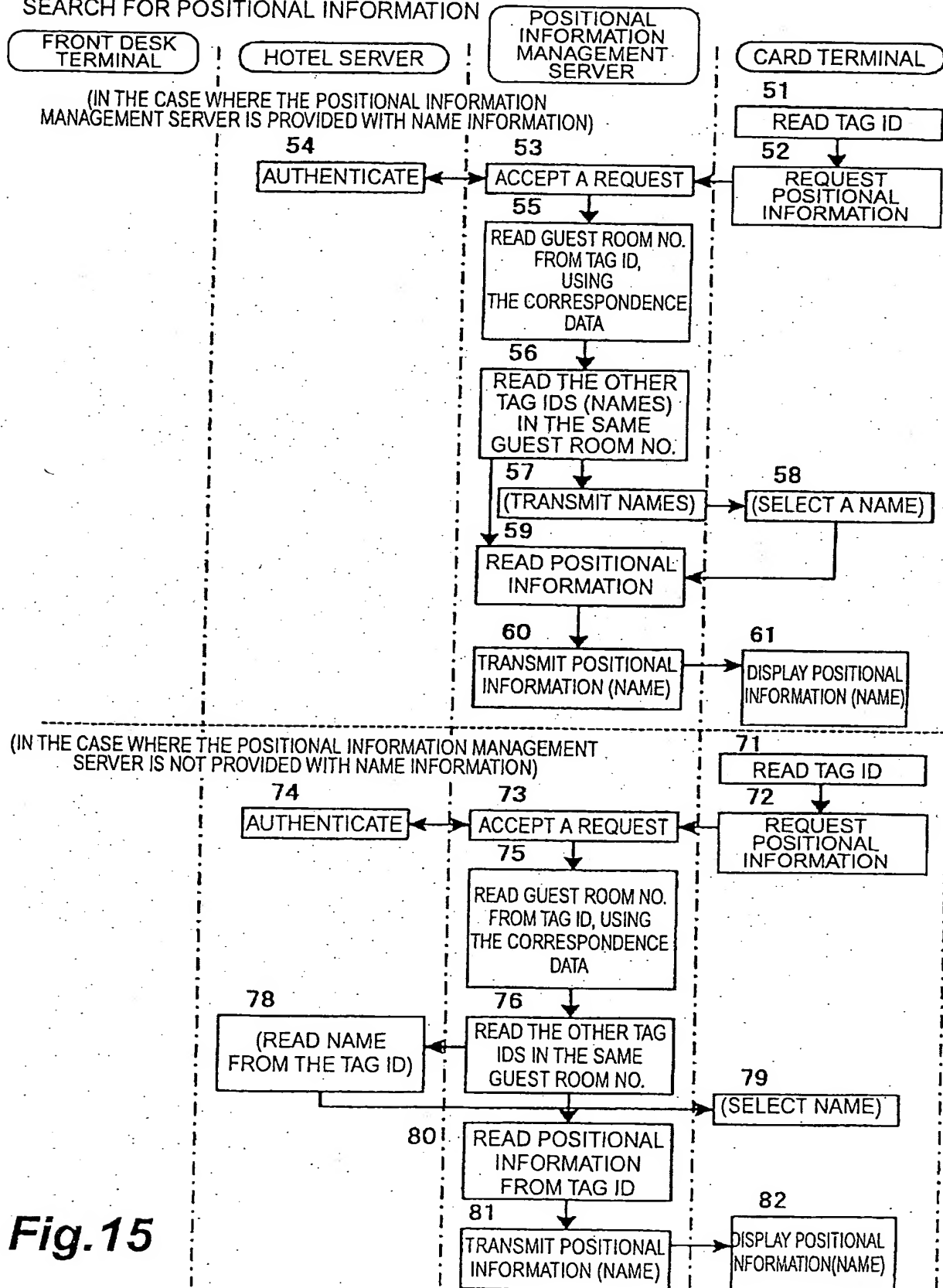
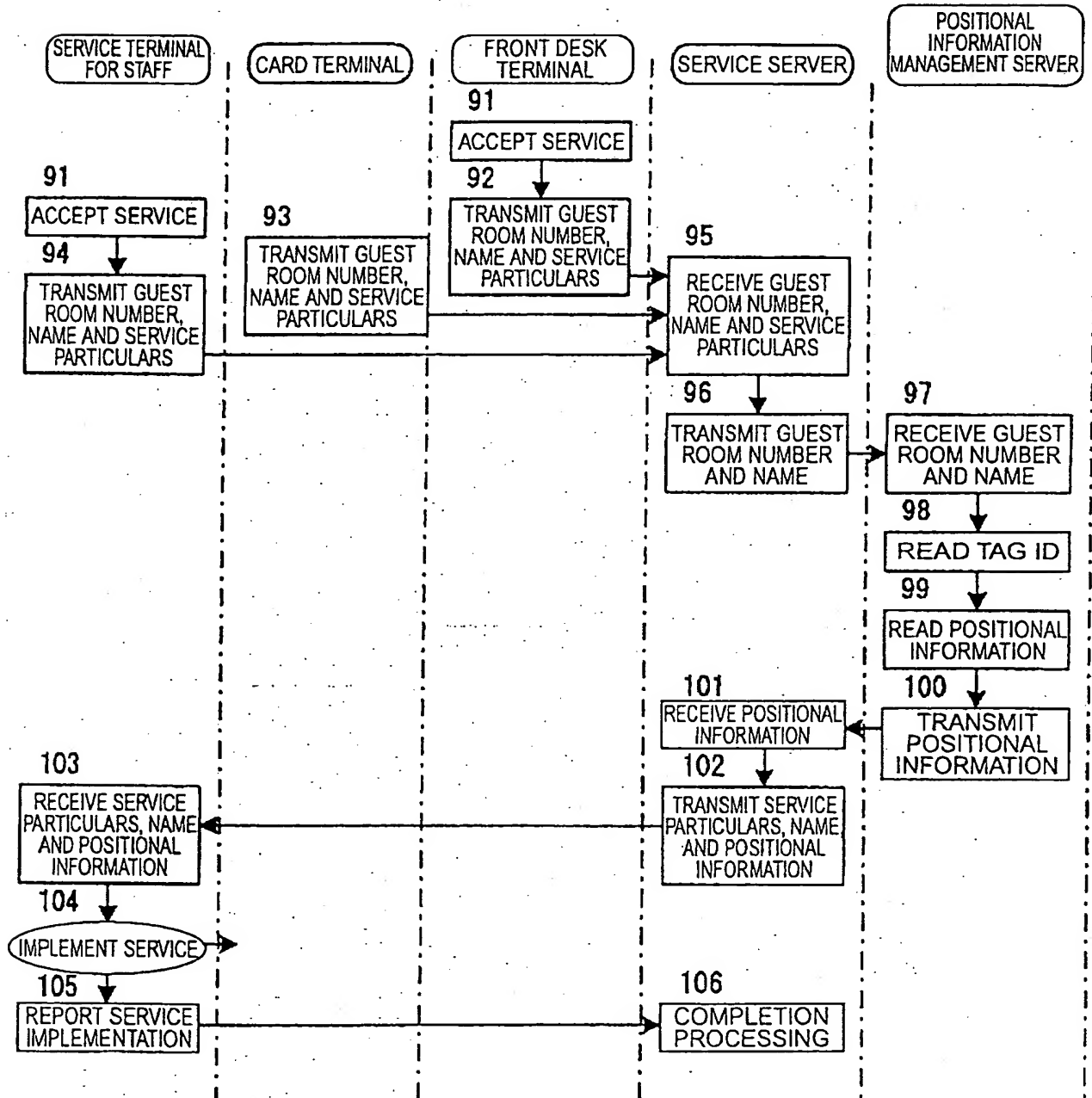


Fig.15

15/17

Fig.16

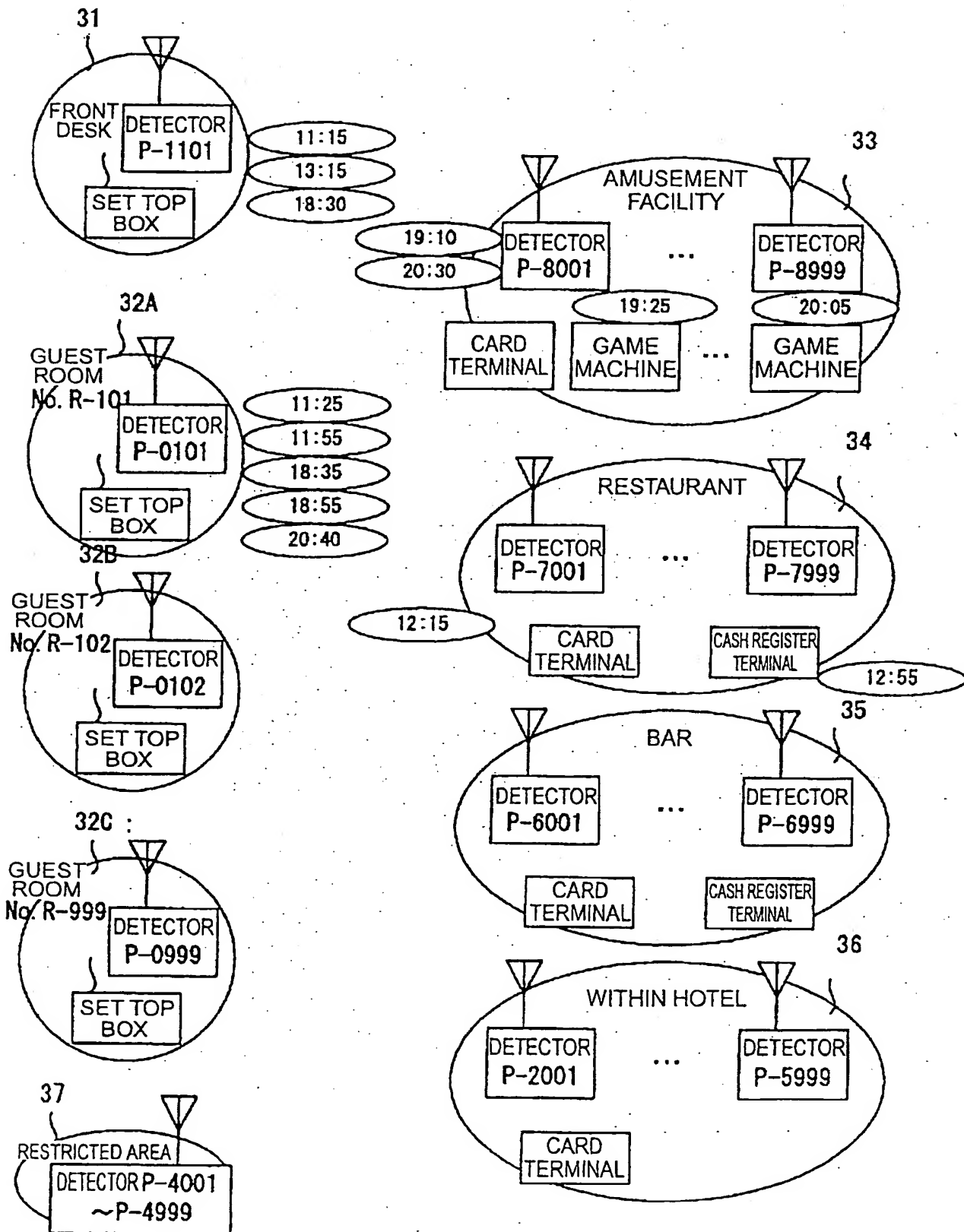
PROVISION OF SERVICES IN ACCORDANCE WITH POSITIONAL INFORMATION



FP03-0287-00

Fig.17

16/17



FP03-0287-00

17/17

Fig.18

